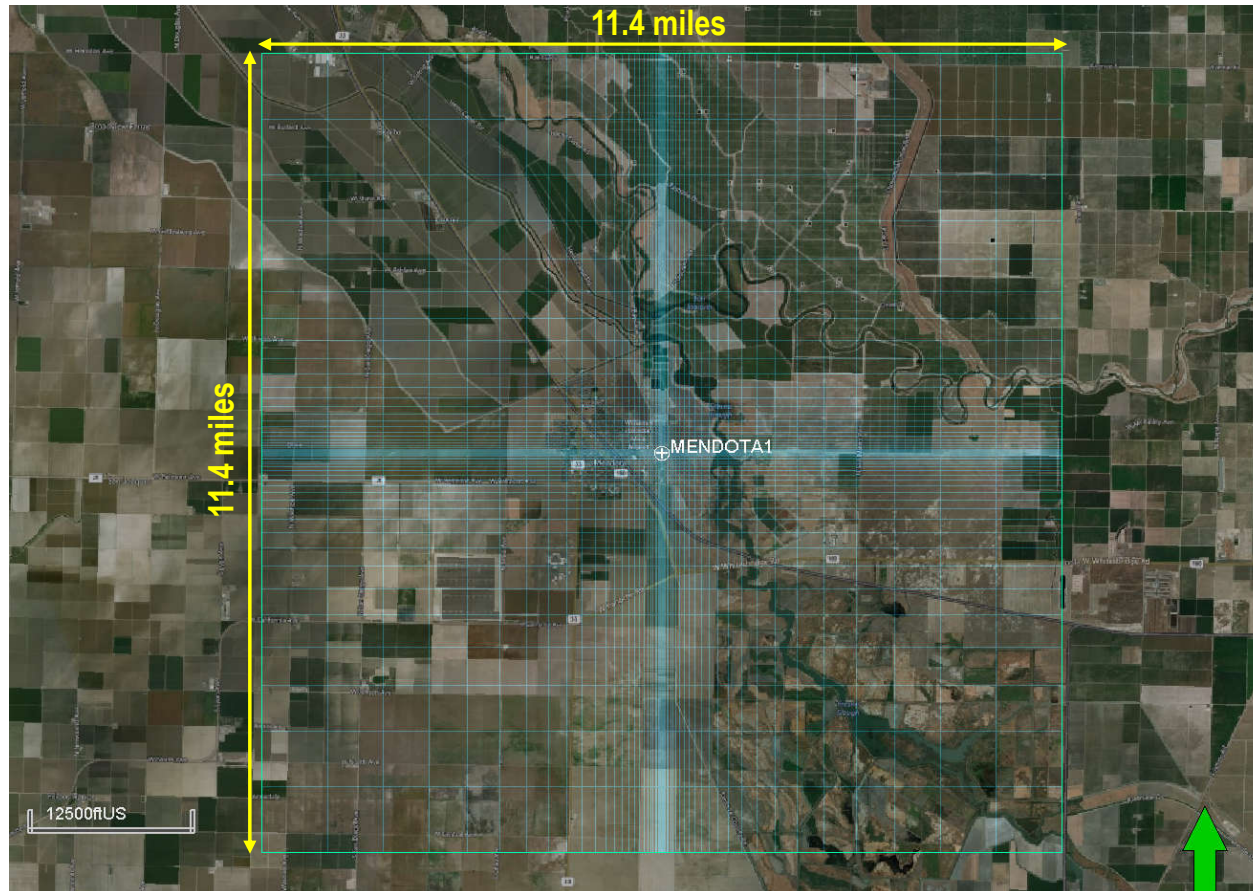


Model Domain and Tartan Grid

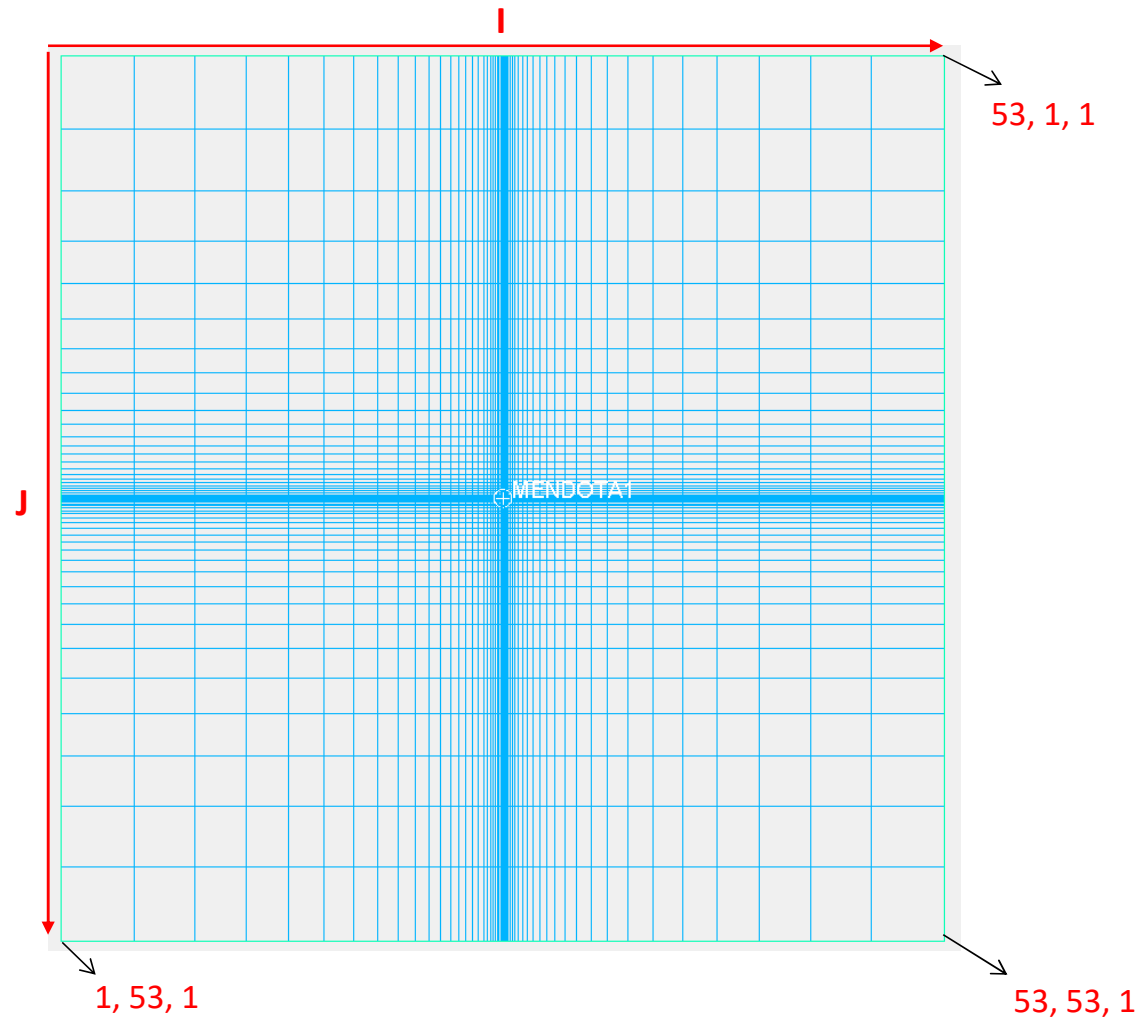


$X_{\min/\max}$: 1570305.76/ 1630305.76

$Y_{\min/\max}$: 490689.19 / 550688.99

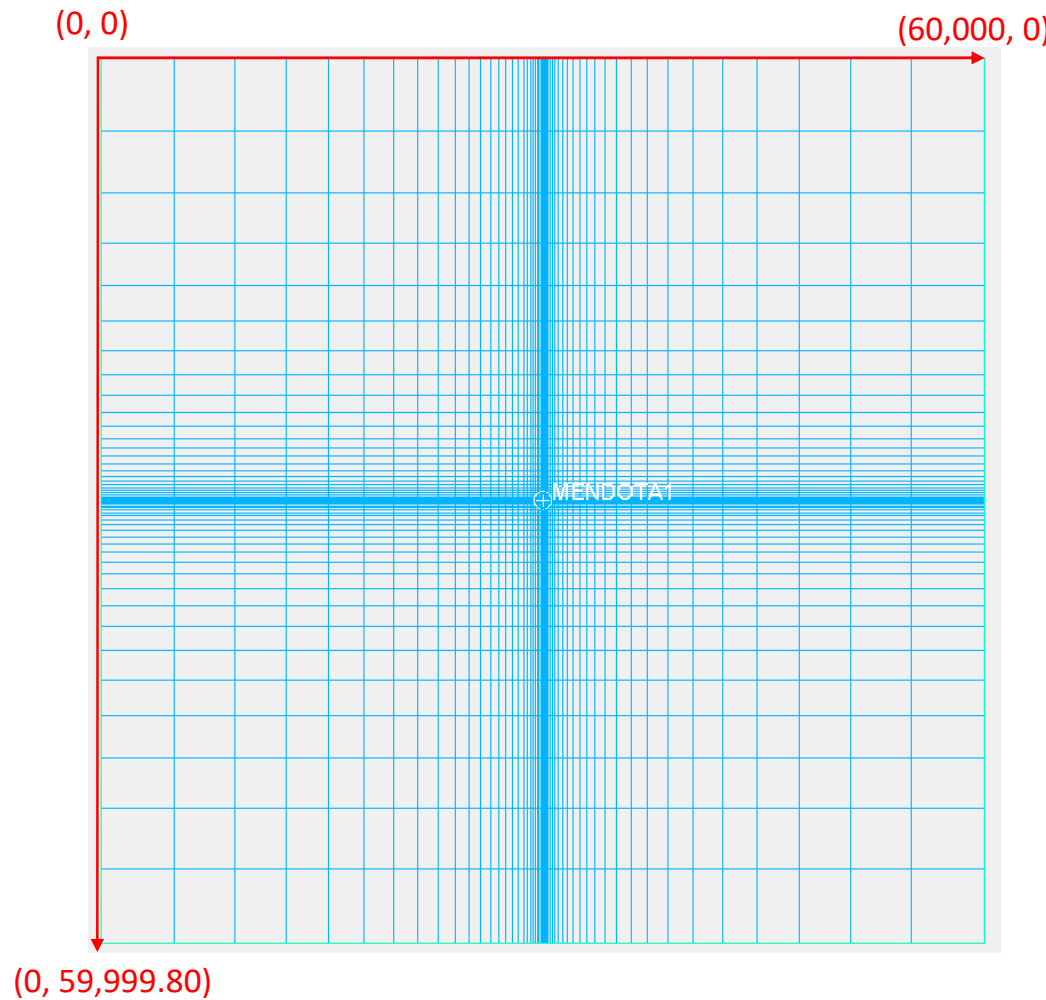
$Z_{\min/\max}$: -16042.75/ -4073.92
(Subsea elevation)

Coordinates - IJK



All the grid properties i.e. PORO, PERMX, SGAS, etc, can be introduced to the grid following the I,J,K coordinate system. In this system I coordinate is the fastest and K coordinate is the slowest loop. For instance, the first value in permeability file belongs to the cell(1,1,1) and the next value represents cell(2,1,1).

COORD - Keyword

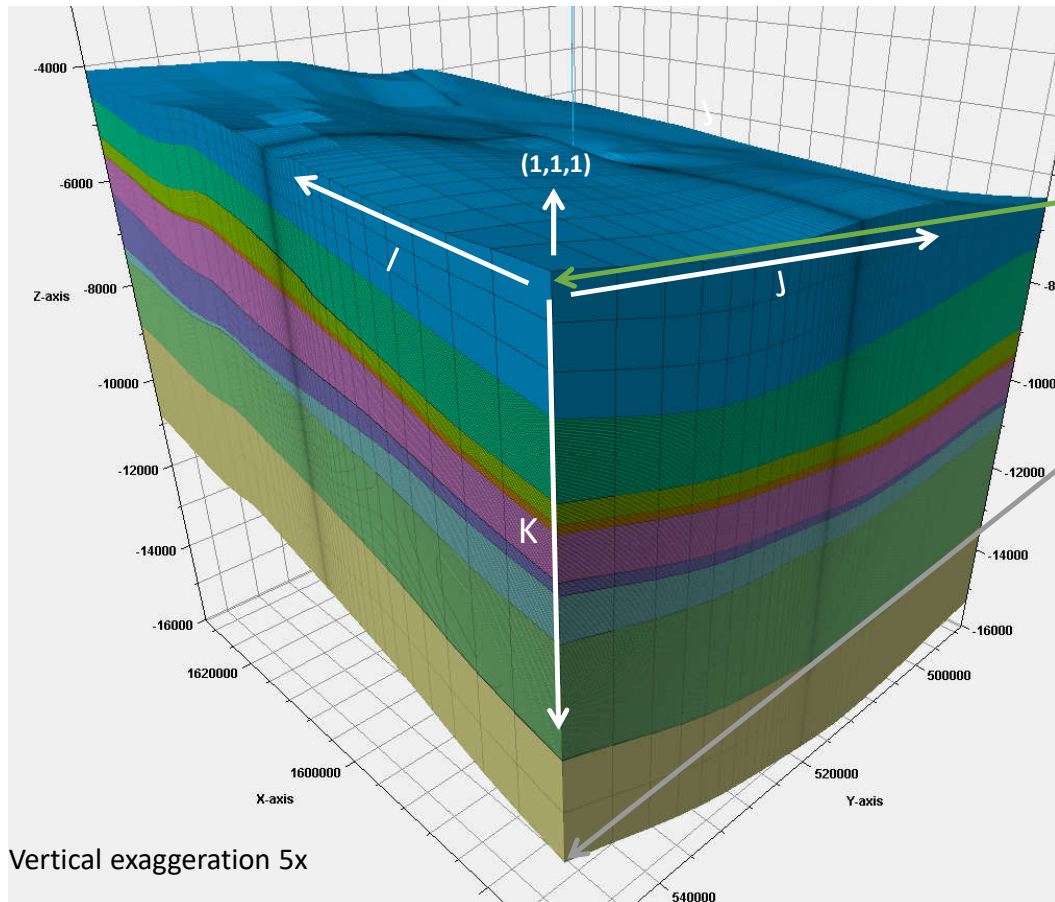


$dX_{\text{max-min}}$: 60,000.00

$dY_{\text{max-min}}$: 59,999.80

Data provided with COORD keyword includes top and bottom X,Y,Z coordinates of vertical pillars on transformed coordinate system.

COORD - Keyword

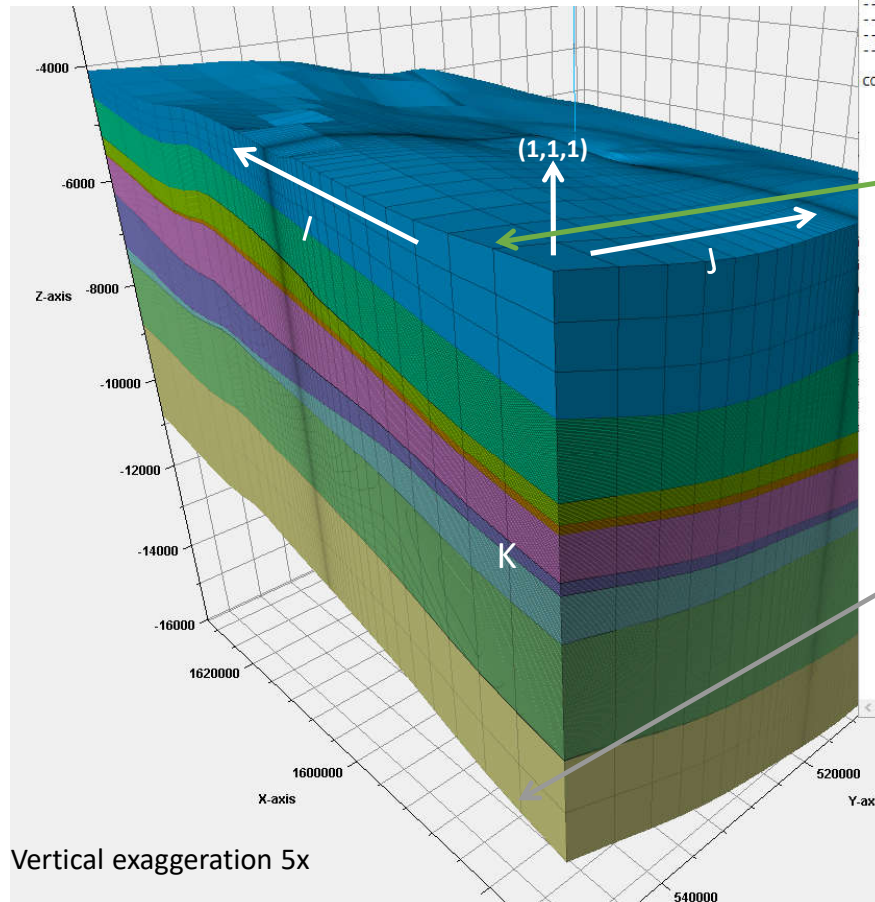


Vertical exaggeration 5x

```
Grid_ASCII_COORD - Notepad
File Edit Format View Help
-- Generated [
-- Format : ECLIPSE keywords (ASCII)
-- Exported by : Petrel 2019.2 Schlumberger
-- User name : slee55
-- Date : Monday, January 06 2020 13:57:09
-- Project : CES Mendota Nad27_22.pet
-- Generated ]

COORD
-- Generated : Petrel
1570305.76 550688.9914 4780.157432 1570305.76 550688.9914 13802.35521 1575274.376 550688.9914 4
13577.3205 1573919.889 550688.9914 4767.81306 1570414.880 550688.9914 13355.57387 1582865.301 5
550688.9914 13121.21887 1585740.61 550688.9914 4711.366066 1585740.61 550688.9914 12905.02009 1
1588136.718 550688.9914 12727.21869 1590133.425 550688.9914 4617.224652 1590133.425 550688.9914
550688.9914 4575.797489 1591797.431 550688.9914 12487.81194 1593184.035 550688.9914 4540.404005
12408.49471 1594339.539 550688.9914 4509.450454 1594339.539 550688.9914 12343.66867 1595302.442
1595302.442 550688.9914 12299.06526 1596104.845 550688.9914 4460.119009 1596104.845 550688.9914
550688.9914 4458.760614 1596773.547 550688.9914 12212.56737 1597330.849 550688.9914 4483.22492
1597804.551 550688.9914 4503.542751 1597804.551 550688.9914 12149.85461 1598268.952 550688.9914
550688.9914 12121.31658 1598655.954 550688.9914 4499.802036 1598655.954 550688.9914 12098.41135
4490.307914 1598978.455 550688.9914 12080.46119 1599247.155 550688.9914 4482.244942 1599247.155
1599471.056 550688.9914 4475.449057 1599471.056 550688.9914 12054.1214 1599657.657 550688.9914
12044.36654 1599813.157 550688.9914 4464.943219 1599813.157 550688.9914 12036.41831 1599942.758
1599942.758 550688.9914 12029.80504 1600050.758 550688.9914 4457.61462 1600050.758 550688.9914
4454.838208 1600140.758 550688.9914 12019.72305 1600215.759 550688.9914 4452.525275 1600215.759
1600275.759 550688.9914 4450.659556 1600275.759 550688.9914 12012.92031 1600335.759 550688.9914
550688.9914 12009.90371 1600395.759 550688.9914 4445.948626 1600395.759 550688.9914 12006.88712
1600470.76 550688.9914 12003.11662 1600560.76 550688.9914 4441.834866 1600560.76 550688.9914 11
4438.50626 1600668.76 550688.9914 11993.17914 1600798.361 550688.9914 4434.493572 1600798.361 5
550688.9914 4429.708914 1600953.861 550688.9914 11978.9321 1601140.462 550688.9914 4423.959902
1601364.363 550688.9914 4417.088822 1601364.363 550688.9914 11958.45362 1601633.063 550688.9914
550688.9914 11945.05423 1601955.564 550688.9914 4399.111319 1601955.564 550688.9914 11928.95075
4387.490737 1602342.566 550688.9914 11909.58653 1602806.967 550688.9914 4373.766155 1602806.967
1603280.669 550688.9914 4360.068917 1603280.669 550688.9914 11862.21456 1603837.971 550688.9914
550688.9914 11833.65993 1604506.673 550688.9914 4326.426406 1604506.673 550688.9914 11798.93832
4306.282403 1605309.076 550688.9914 11756.65617 1606271.979 550688.9914 4284.645239 1606271.979
1607427.483 550688.9914 4262.179952 1607427.483 550688.9914 11639.47867 1608814.087 550688.9914
550688.9914 11555.17611 1610478.093 550688.9914 4214.407099 1610478.093 550688.9914 11453.45854
1612474.8 550688.9914 11383.18524 1614870.908 550688.9914 4260.54226 1614870.908 550688.9914 11
4298.820992 1617746.217 550688.9914 11370.3591 1621196.629 550688.9914 4284.411353 1621196.629
550688.9914 4195.138094 1625337.142 550688.9914 11014.26313 1630305.758 550688.9914 4073.911286
10807.44909 1570305.76 545720.392 4980.605273 1570305.76 545720.392 14181.11519 1575274.376 545
545720.392 13914.01416 1579414.889 545720.392 4877.128429 1579414.889 545720.392 13676.36523 5
1582865.301 545720.392 13457.23969 1585740.61 545720.392 4772.590064 1585740.61 545720.392 1326
4717.82406 1588136.718 545720.392 13114.99428 1590133.425 545720.392 4669.183533 1590133.425 54
545720.392 4628.513692 1591797.431 545720.392 12908.89117 1593184.035 545720.392 4595.200282 15
1594339.539 545720.392 4567.984516 1594339.539 545720.392 12791.22539 1595302.442 545720.392 45
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COORD - Keyword



```
Grid_Ascii_COORD - Notepad
File Edit Format View Help
-- Generated [
-- Format      : ECLIPSE keywords (ASCII)
-- Exported by : Petrel 2019.2 Schlumberger
-- User name   : s1ee55
-- Date        : Monday, January 06 2020 13:57:09
-- Project     : CES Mendota Nad27_22.pet
-- Generated ]

COORD
-- Generated : Petrel
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13577.3205 1579414.889 550688.9914 4767.81566 1579414.889 550688.9914 13355.3730 1590009.501 550688.9914 4769.04424 1590009.501
550688.9914 13121.21887 1585740.61 550688.9914 4711.36606 1585740.61 550688.9914 12905.02009 1588136.718 550688.9914 4664.291453
1588136.718 550688.9914 12727.21887 1590133.425 550688.9914 4617.224652 1590133.425 550688.9914 12590.54708 1591797.431
550688.9914 4575.70410 1591797.431 550688.9914 12487.81194 1593184.035 550688.9914 4540.404005 1593184.035 550688.9914
12487.81194 1594339.539 550688.9914 4509.450454 1594339.539 550688.9914 12343.66867 1595302.442 550688.9914 4482.483223
550688.9914 4458.760614 1596773.547 550688.9914 12212.56737 1597330.849 550688.9914 4482.72492 1597330.849 550688.9914 12179.34478
1597804.551 550688.9914 4503.542751 1597804.551 550688.9914 12149.85461 1598268.952 550688.9914 4506.999287 1598268.952
550688.9914 12121.31658 1598655.954 550688.9914 4499.802036 1598655.954 550688.9914 12098.41135 1598978.455 550688.9914
4490.307914 1598978.455 550688.9914 12080.46119 1599247.155 550688.9914 4482.244942 1599247.155 550688.9914 12065.92118
1599471.056 550688.9914 4475.449057 1599471.056 550688.9914 12054.1214 1599657.657 550688.9914 4469.741549 1599657.657 550688.9914
12044.36654 1599813.157 550688.9914 4464.943219 1599813.157 550688.9914 12036.41831 1599942.758 550688.9914 4460.962269
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4454.838258 1600140.758 550688.9914 12019.72303 1600215.759 550688.9914 4452.525275 1600215.759 550688.9914 12015.93691
1600215.759 550688.9914 4450.659556 1600215.759 550688.9914 12012.92031 1600335.759 550688.9914 4448.799208 1600335.759
550688.9914 12009.90371 1600395.759 550688.9914 4446.948026 1600395.759 550688.9914 12006.88712 1600470.76 550688.9914 4444.632712
1600470.76 550688.9914 12003.11662 1600560.76 550688.9914 4441.834866 1600560.76 550688.9914 11998.59221 1600668.76 550688.9914
4438.50626 1600668.76 550688.9914 11993.17914 1600798.361 550688.9914 4434.493572 1600798.361 550688.9914 11986.70161 1600953.861
550688.9914 4429.708914 1600953.861 550688.9914 11978.9321 1601140.462 550688.9914 4423.959902 1601140.462 550688.9914 11969.61669
1601140.462 550688.9914 4417.088822 1601367.363 550688.9914 11958.45362 1601633.063 550688.9914 4408.887178 1601633.063
550688.9914 11945.05423 1601955.564 550688.9914 4399.11319 1601955.564 550688.9914 11928.95075 1602342.566 550688.9914
4387.490737 1602342.566 550688.9914 11909.58653 1602806.967 550688.9914 4373.766155 1602806.967 550688.9914 11886.22525
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550688.9914 11833.65993 1604006.673 550688.9914 4326.426406 1604506.673 550688.9914 11798.93832 1605309.076 550688.9914
4306.282403 1605309.076 550688.9914 11756.65617 1606271.979 550688.9914 4284.645239 1606271.979 550688.9914 11704.72659
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550688.9914 11555.27611 1610478.093 550688.9914 4214.407099 1610478.093 550688.9914 11453.45854 1612474.8 550688.9914 4214.038447
1612474.8 550688.9914 11383.18524 1614870.908 550688.9914 4200.54226 1614870.908 550688.9914 11394.26139 1617746.217 550688.9914
4298.820999 1617746.217 550688.9914 11370.3591 1621196.629 550688.9914 4284.411353 1621196.629 550688.9914 11237.96678 1625337.142
550688.9914 4195.138094 1625337.142 550688.9914 11014.26313 1630305.758 550688.9914 4073.911286 1630305.758 550688.9914
10807.44809 1570305.76 545720.392 4980.605273 1570305.76 545720.392 14181.11519 1575274.376 545720.392 4919.648899 1575274.376
545720.392 13914.01416 1579414.889 545720.392 4877.128429 1579414.889 545720.392 13676.36523 1582865.301 545720.392 4828.039172
1582865.301 545720.392 13457.23969 1585740.61 545720.392 4772.590064 1585740.61 545720.392 13268.0594 1588136.718 545720.392
4717.82406 1588136.718 545720.392 13114.99428 1590133.425 545720.392 4669.183533 1590133.425 545720.392 12997.01795 1591797.431
545720.392 4628.513692 1591797.431 545720.392 12908.89117 1593184.035 545720.392 4595.280282 1593184.035 545720.392 12844.79755
1594339.539 545720.392 4567.984516 1594339.539 545720.392 12791.22539 1595302.442 545720.392 4545.738467 1595302.442 545720.392
12727.85833 1596104.845 545720.392 4527.477761 1596104.845 545720.392 12665.59186 1596773.547 545720.392 4512.450448 1596773.547
545720.392 12620.04898 1597330.849 545720.392 4500.015414 1597330.849 545720.392 12586.30881 1597804.551 545720.392 4489.523247
```

$N_x=53, N_y= 53$
Hence, there are
 $(N_x+1) \times (N_y+1) \times 2$
sets of X,Y,Z
coordinates

For detailed description please see Eclipse Reference Manual.

ZCORN - Keyword

```
Grid_Ascii_ZCORN - Notepad
File Edit Format View Help
-- Generated [
-- Format      : ECLIPSE keywords (ASCII)
-- Exported by : Petrel 2019.2 Schlumberger
-- User name   : slee55
-- Date        : Monday, January 06 2020 13:57:09
-- Project     : CES Mendota Nad27_22.pet
-- Generated ]

ZCORN
-- Generated : Petrel
4780.16 2*4761.01 2*4767.82 2*4749.84 2*4711.37 2*4664.29 2*4617.22 2*4575.8 2*4540.4 2*4509.45
4458.76 2*4483.22 2*4503.54 2*4507 2*4499.8 2*4490.31 2*4482.24 2*4475.45 2*4469.74 2*4464.94 2
2*4452.53 2*4450.66 2*4448.8 2*4446.95 2*4444.63 2*4441.83 2*4438.51 2*4434.49 2*4429.71 2*4423
4399.11 2*4387.49 2*4373.77 2*4360.07 2*4344.42 2*4326.43 2*4306.28 2*4284.65 2*4262.18 2*4238.
4260.54 2*4298.82 2*4284.41 2*4195.14 4073.91 4980.61 2*4919.65 2*4877.13 2*4828.04 2*4772.59 2
2*4595.2 2*4567.98 2*4545.74 2*4527.48 2*4512.45 2*4500.02 2*4489.52 2*4479.29 2*4470.77 2*4463
4448.76 2*4445.32 2*4442.48 2*4440.06 2*4438.06 2*4436.41 2*4435.06 2*4433.7 2*4432.37 2*4430.7
4423.29 2*4419.78 2*4415.48 2*4410.31 2*4404.08 2*4396.57 2*4387.41 2*4376.41 2*4364.95 2*4365.
4543.56 2*4513.47 2*4477.8 2*4438.19 2*4401.37 2*4374.05 2*4355.43 2*4333.89 2*4251.65 4130.06
2*4828.04 2*4772.59 2*4717.82 2*4669.18 2*4628.51 2*4595.2 2*4567.98 2*4545.74 2*4527.48 2*4512
4479.29 2*4470.77 2*4463.7 2*4457.8 2*4452.88 2*4448.76 2*4445.32 2*4442.48 2*4440.06 2*4438.06
2*4432.37 2*4430.71 2*4428.66 2*4426.24 2*4423.29 2*4419.78 2*4415.48 2*4410.31 2*4404.08 2*439
4364.95 2*4365.31 2*4427.26 2*4535.6 2*4543.56 2*4513.47 2*4477.8 2*4438.19 2*4401.37 2*4374.05
4251.65 4130.06 5156.45 2*5066.9 2*4992.36 2*4922.38 2*4855.46 2*4795.25 2*4744.38 2*4703.1 2*4
4609.77 2*4598.01 2*4588.92 2*4581.7 2*4575.07 2*4569.88 2*4565.77 2*4562.48 2*4559.82 2*4557.6
2*4552.19 2*4551.35 2*4550.69 2*4550.03 2*4549.36 2*4548.54 2*4547.54 2*4546.35 2*4544.92 2*454
4535.52 2*4531.75 2*4527.05 2*4521.18 2*4514.92 2*4507.22 2*4497.53 2*4485.4 2*4470.47 2*4452.5
4564.75 2*4517.56 2*4483.99 2*4442.38 2*4340.02 4187.91 5156.45 2*5066.9 2*4992.36 2*4922.38 2*
4703.1 2*4670.37 2*4644.81 2*4625.02 2*4609.77 2*4598.01 2*4588.92 2*4581.7 2*4575.07 2*4569.88
4559.82 2*4557.65 2*4555.87 2*4554.4 2*4553.2 2*4552.19 2*4551.35 2*4550.69 2*4550.03 2*4549.36
4546.35 2*4544.92 2*4543.2 2*4541.12 2*4538.6 2*4535.52 2*4531.75 2*4527.05 2*4521.18 2*4514.92
2*4470.47 2*4452.54 2*4431.99 2*4456.57 2*4564.75 2*4517.56 2*4483.99 2*4442.38 2*4340.02 4187.
5100.84 2*5025.46 2*4957.69 2*4897.27 2*4845.09 2*4801.76 2*4767.87 2*4742.98 2*4725.77 2*4714.
4695.94 2*4690.52 2*4686.33 2*4683.22 2*4680.92 2*4679.19 2*4677.9 2*4676.92 2*4676.13 2*4675.5
4674.35 2*4674.06 2*4673.76 2*4673.4 2*4672.99 2*4672.5 2*4671.93 2*4671.25 2*4670.43 2*4669.42
2*4661.12 2*4657.55 2*4652.88 2*4646.74 2*4638.8 2*4628.81 2*4616.51 2*4601.77 2*4585.58 2*4573
4468.37 2*4376.63 4218.18 5289.92 2*5187.94 2*5100.84 2*5025.46 2*4957.69 2*4897.27 2*4845.09 2
2*4725.77 2*4714.68 2*4707.34 2*4701.43 2*4695.94 2*4690.52 2*4686.33 2*4683.22 2*4680.92 2*467
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4670.43 2*4669.42 2*4668.14 2*4666.48 2*4664.2 2*4661.12 2*4657.55 2*4652.88 2*4646.74 2*4638.8
4601.77 2*4585.58 2*4573.67 2*4578.26 2*4546.55 2*4468.37 2*4376.63 4218.18 5381.35 2*5277.56 2
2*5005.76 2*4953.92 2*4909.89 2*4877.24 2*4855.02 2*4840.54 2*4830.98 2*4825.86 2*4825.04 2*482
4824.09 2*4822.05 2*4820.15 2*4818.49 2*4817.11 2*4815.95 2*4815.02 2*4814.25 2*4813.58 2*4813.
4811.48 2*4810.78 2*4809.93 2*4808.92 2*4807.72 2*4806.33 2*4804.63 2*4802.59 2*4800.05 2*4796.
4784.41 2*4778.97 2*4772.84 2*4766.13 2*4758.56 2*4748.52 2*4734.05 2*4717.62 2*4703.35 2*4699.
5381.35 2*5277.56 2*5192.03 2*5123.34 2*5062.88 2*5005.76 2*4953.92 2*4909.89 2*4877.24 2*4855.
4825.86 2*4825.04 2*4826.37 2*4827.07 2*4825.93 2*4824.09 2*4822.05 2*4820.15 2*4818.49 2*4817.
4814.25 2*4813.58 2*4813.1 2*4812.61 2*4812.12 2*4811.48 2*4810.78 2*4809.93 2*4808.92 2*4807.7
4802.59 2*4800.05 2*4796.95 2*4793.1 2*4789.09 2*4784.41 2*4778.97 2*4772.84 2*4766.13 2*4758.5
4717.62 2*4703.35 2*4699.01 2*4695.94 2*4692.36 4272.34 5438.14 2*5338.84 2*5261.87 2*5204.83 2
2*5001.57 2*4973.12 2*4959.07 2*4951.72 2*4946.96 2*4944.35 2*4943.29 2*4940.75 2*4936.62 2*493
4928.84 2*4927.46 2*4926.32 2*4925.36 2*4924.59 2*4923.97 2*4923.44 2*4923.06 2*4922.68 2*4922.2
```

COORD keyword is followed by ZCORN keyword. ZCORN keyword defines the subsea elevation of each cell's 8 corners.

The keyword is followed by $2 * N_x * 2 * N_y * 2 * N_z$ values, where N_x , N_y , N_z are the number of cells in each direction.

For cell i , the 8 ZCORN values are $z_{i,1}$, $z_{i,2}$, $z_{i,3}$, $z_{i,4}$, $z_{i,5}$, $z_{i,6}$, $z_{i,7}$, $z_{i,8}$. Here values 1-4 are for the top face, with $z_{i,1}$ on the far left corner, $z_{i,2}$ on the far right corner, $z_{i,3}$ on the near left corner, and $z_{i,4}$ on the near right corner. Values 5-8 have the same function for the bottom face. Then the arrangement of

the ZCORN values within this range are:

- for the first row of N_x cells, the far top values $z_{1,1}$, $z_{1,2}$, $z_{2,1}$, $z_{2,2}$, ..., $z_{i,1}$, $z_{i,2}$, ..., $z_{N_x,1}$, $z_{N_x,2}$, followed by the near top values $z_{1,3}$, $z_{1,4}$, $z_{2,3}$, $z_{2,4}$, ..., $z_{i,3}$, $z_{i,4}$, ..., $z_{N_x,3}$, $z_{N_x,4}$.
- Repeat for each subsequent row of N_x cells in the top plane.
- Now repeat the last two steps for the **bottom** values of the top plane.
- Finally, repeat all previous steps for each plane in the grid.

For detailed description please see Eclipse Reference Manual.

Example

Order of COORD rows for 4x5x2 grid

| | | | | |
|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 |

Each number represents Xtop, Ytop, Ztop, Xbot, Ybot, Zbot

Example

Order of ZCORN rows for 4x5x2 grid

| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
| 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
| 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |

Top of Layer 1

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 |
| 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
| 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 |
| 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 |
| 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
| 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 |
| 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 |
| 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 |
| 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 |
| 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 |

Bottom of Layer 1

Example

Order of ZCORN rows for 4x5x2 grid

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 |
| 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 |
| 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 |
| 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 |
| 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 |
| 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 |
| 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 |
| 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 |
| 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 |
| 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 |

Top of Layer 2

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 |
| 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 |
| 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 |
| 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 |
| 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 |
| 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 |
| 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 |
| 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 |
| 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 |
| 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 |

Bottom of Layer 2